

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	78	(65/29.14).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/17 10:17
L10	1802	((65/102) or (65/292) or (65/377) or (65/401) or (65/439) or (65/494) or (65/540) or (65/86) or (65/393)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/17 10:51
L11	35	L10 and @pd>="20090806"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/17 10:52
S1	36	("3078695"   "3401028"   "3410675"   "3467513"   "4350513"   "4372771"   "4850670"   "5295213"   "5314517"   "5540746"   "6098428"   "6128926"   "6250112"   "6810691").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/28 16:10
S2	624	(65/102).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/09 16:54
S3	298	(65/292).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/09 16:54
S4	2	"20080127680".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/09 17:14

S5	624	(65/102).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/10 10:53
S6	298	(65/292).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/10 10:53
S7	277	S6 not S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/10 10:53
S15	2	"4195982".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/10 15:26
S16	56412	("65").CLAS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/10 16:09
S17	6867	S16 and hollow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/10 16:09
S18	908	S16 and (hollow near3 tube)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/10 16:09
S19	106	S18 and extrud\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/10 16:10
S20	119	(65/277).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/10 16:34

S21	4	("3146082").URPN.	USPAT	OR	ON	2008/12/11 09:38
S22	25	("2566252"   "2960723"   "3467513"   "3846100"   "3859103"   "3894857"   "3941474"   "4199343"   "4246016"   "4462663"   "4495298"   "4495299"   "4756733"   "4810275"   "4851023"   "4867774"   "4902330"   "5540746"   "5968221").PN. OR ("6128926").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/11 09:45
S23	219	(65/377).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/11 10:01
S24	42	(US-20080127680-\$ or US- 20080110209-\$ or US- 20030196458-\$).did. or (US- 6810691-\$ or US-6250112-\$ or US-6128926-\$ or US- 6098428-\$ or US-5540746-\$ or US-5314517-\$ or US- 5295213-\$ or US-4850670-\$ or US-4372771-\$ or US- 4350513-\$ or US-3467513-\$ or US-3410675-\$ or US- 3401028-\$ or US-3078695-\$ or US-7007513-\$ or US- 5785729-\$ or US-4608071-\$ or US-3146082-\$ or US- 3853522-\$ or US-4195982-\$ or US-5814122-\$ or US- 5811376-\$ or US-4212661-\$ or US-4188201-\$ or US- 4022603-\$ or US-6769276-\$ \$).did. or (US-2613479-\$ or US-5968221-\$ or US- 7197898-\$ or US-6938442-\$ or US-6148639-\$ or US- 4948412-\$ or US-4389574-\$ or US-4342580-\$ or US- 4130406-\$).did. or (US- 3149447-\$).did. or (JP- 63210036-\$ or JP-01192741-\$ or JP-01192739-\$).did.	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2008/12/11 11:01
S25	2	S24 and dummy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 11:01

S26	18	("2155131"   "2306995"   "3401028"   "4121920"   "4407667"   "4552576"   "4704151"   "5364432"   "5674306"   "5942019"   "6178778"   "6279353"   "6532776"   "6742363").PN. OR ("6938442").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/11 11:05
S27	19	("4102661"   "4123242"   "4793890"   "5013130"   "5073179"   "5079433"   "5167684"   "5314517"   "5372622"   "5443610"   "5449393").PN. OR ("6098428").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/11 14:37
S28	219	(65/384).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/11 14:48
S29	2	vaughan-morrill.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 16:07
S30	1	morrill-vaughan.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 16:07
S31	17	morrill-v.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 16:07
S32	75	wilke-r.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 16:09
S33	1	wilke-roger.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 16:10

S34	0	roger-wilke.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 16:10
S35	1168	morrill.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 16:17
S36	84	S35 and glass	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/11 16:17
S37	95	(65/401).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/07 11:54
S38	87	(65/439).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/07 11:55
S39	48	(65/494).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/07 11:56
S40	117	(65/540).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/07 11:57
S41	2	("6474108").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/11 08:42
S42	2	("5785729").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/11 08:44

S43	15	("4161500"   "4253731"   "4381141"   "4678274"   "4685946"   "4729777"   "4801186"   "4865418"   "5076653"   "Re31868").PN. OR ("5169421").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/12 09:31
S44	230	(65/86).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/12 10:05
S45	209	((65/393) or (65/439)). CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/12 10:05
S46	426	S44 or S45	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/12 10:05
S47	7	"4078909"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/12 10:13
S48	13	("3121254"   "3268313"   "3701642"   "3764286"   "3870497").PN. OR ("4078909").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/12 10:14
S50	125	(US-20080127680-\$ or US-20080110209-\$ or US-20030196458-\$ or US-20050039490-\$ or US-20060260360-\$ or US-20050227027-\$ or US-20030230118-\$ or US-20030159468-\$).did. or (US-6810691-\$ or US-6250112-\$ or US-6128926-\$ or US-6098428-\$ or US-5540746-\$ or US-5314517-\$ or US-5295213-\$ or US-4850670-\$ or US-4372771-\$ or US-4350513-\$ or US-3467513-\$ or US-3410675-\$ or US-3401028-\$ or US-3078695-\$ or US-7007513-\$ or US-5785729-\$ or US-4608071-\$ or US-3146082-\$ or US-3853522-\$ or US-4195982-\$	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2009/08/12 15:39

or US-5814122-\$ or US-5811376-\$ or US-4212661-\$ or US-4188201-\$ or US-4022603-\$ or US-6769276-\$).did. or (US-2613479-\$ or US-5968221-\$ or US-7197898-\$ or US-6938442-\$ or US-6148639-\$ or US-4948412-\$ or US-4389574-\$ or US-4342580-\$ or US-4130406-\$ or US-6739155-\$ or US-6715317-\$ or US-6474108-\$ or US-5182790-\$ or US-5169421-\$ or US-4978376-\$ or US-4451116-\$ or US-2992517-\$ or US-5318432-\$ or US-4865418-\$ or US-4801186-\$ or US-4729777-\$ or US-4078909-\$ or US-3121254-\$ or US-7363776-\$ or US-6851280-\$ or US-5743928-\$ or US-5674307-\$).did. or (US-5471553-\$ or US-5364432-\$ or US-4941904-\$ or US-4846864-\$ or US-4758259-\$ or US-4698082-\$ or US-3873293-\$ or US-3870497-\$ or US-3660065-\$ or US-3607184-\$ or US-3510393-\$ or US-3421873-\$ or US-3303011-\$ or US-3298808-\$ or US-3268313-\$ or US-2852891-\$ or US-RE20522-\$ or US-2085245-\$ or US-2009793-\$ or US-1975737-\$ or US-1926905-\$ or US-1920336-\$ or US-1892477-\$ or US-1823543-\$ or US-1750972-\$ or US-1750971-\$).did. or (US-3149447-\$ or US-2992517-\$ or US-3121254-\$ or US-3510393-\$ or US-3421873-\$ or US-3303011-\$ or US-3298808-\$ or US-3268313-\$ or US-2852891-\$ or US-RE20522-\$ or US-2085245-\$ or US-2009793-\$ or US-1975737-\$ or US-1926905-\$ or US-1920336-\$ or US-1892477-\$ or US-1823543-\$ or US-1750972-\$ or US-1750971-\$).did. or (EP-529647-\$ or EP-476537-\$ or DE-3918360-\$ or GB-2093817-\$).did. or (JP-63210036-\$ or JP-

		01192741-\$ or JP-01192739-\$ or JP-05254871-\$ or JP-05254869-\$ or JP-05254860-\$ or JP-04331736-\$ or JP-03200849-\$ or JP-01108505-\$ or JP-58196503-\$ or JP-57078507-\$ or JP-57005004-\$ or JP-57005003-\$ or JP-62252337-\$ or JP-55167144-\$).did.				
S51	4	S50 and (temperature same sensor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/12 15:39
S52	8	("4944783"   "5676725").PN. OR ("5968221").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/12 15:43
S54	125	(US-20080127680-\$ or US-20080110209-\$ or US-20030196458-\$ or US-20050039490-\$ or US-20060260360-\$ or US-20050227027-\$ or US-20030230118-\$ or US-20030159468-\$).did. or (US-6810691-\$ or US-6250112-\$ or US-6128926-\$ or US-6098428-\$ or US-5540746-\$ or US-5314517-\$ or US-5295213-\$ or US-4850670-\$ or US-4372771-\$ or US-4350513-\$ or US-3467513-\$ or US-3410675-\$ or US-3401028-\$ or US-3078695-\$ or US-7007513-\$ or US-5785729-\$ or US-4608071-\$ or US-3146082-\$ or US-3853522-\$ or US-4195982-\$ or US-5814122-\$ or US-5811376-\$ or US-4212661-\$ or US-4188201-\$ or US-4022603-\$ or US-6769276-\$).did. or (US-2613479-\$ or US-5968221-\$ or US-7197898-\$ or US-6938442-\$ or US-6148639-\$ or US-4948412-\$ or US-4389574-\$ or US-4342580-\$ or US-4130406-\$ or US-6739155-\$ or US-6715317-\$ or US-6474108-\$ or US-5182790-\$ or US-5169421-\$ or US-4978376-\$ or US-4451116-\$ or US-2992517-\$ or US-5318432-\$ or US-4865418-\$	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2009/08/13 13:01



		or US-4801186-\$ or US-4729777-\$ or US-4078909-\$ or US-3121254-\$ or US-7363776-\$ or US-6851280-\$ or US-5743928-\$ or US-5674307-\$).did. or (US-5471553-\$ or US-5364432-\$ or US-4941904-\$ or US-4846864-\$ or US-4758259-\$ or US-4698082-\$ or US-3873293-\$ or US-3870497-\$ or US-3660065-\$ or US-3607184-\$ or US-3510393-\$ or US-3421873-\$ or US-3303011-\$ or US-3298808-\$ or US-3268313-\$ or US-2852891-\$ or US-RE20522-\$ or US-2085245-\$ or US-2009793-\$ or US-1975737-\$ or US-1926905-\$ or US-1920336-\$ or US-1892477-\$ or US-1823543-\$ or US-1750972-\$ or US-1750971-\$).did. or (US-3149447-\$ or US-2992517-\$ or US-3121254-\$ or US-3510393-\$ or US-3421873-\$ or US-3303011-\$ or US-3298808-\$ or US-3268313-\$ or US-2852891-\$ or US-RE20522-\$ or US-2085245-\$ or US-2009793-\$ or US-1975737-\$ or US-1926905-\$ or US-1920336-\$ or US-1892477-\$ or US-1823543-\$ or US-1750972-\$ or US-1750971-\$).did. or (EP-529647-\$ or EP-476537-\$ or DE-3918360-\$ or GB-2093817-\$).did. or (JP-63210036-\$ or JP-01192741-\$ or JP-01192739-\$ or JP-05254871-\$ or JP-05254869-\$ or JP-05254860-\$ or JP-04331736-\$ or JP-03200849-\$ or JP-01108505-\$ or JP-58196503-\$ or JP-57078507-\$ or JP-57005004-\$ or JP-57005003-\$ or JP-62252337-\$ or JP-55167144-\$).did.				
S55	9	S54 and bubble	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/13 13:01

S56	1127	((65/102) or (65/292) or (65/377)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/13 15:30
S57	9	S56 and @pd>="20081209"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/13 15:30
S60	213	(414/14).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/11 15:25
S61	10	("3626792"   "4019411"   "4914993"   "4958543"   "5401230"   "5535653").PN. OR ("5970830").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/11 15:32
S62	261	(65/DIG.9).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/13 15:31
S63	3349	((264/40.1) or (264/40.7)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/13 15:51
S66	234	((264/177.14) or (264/177.15)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/13 15:52
S68	692	(425/114).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/13 15:53
S69	365	(425/40).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/13 15:53

S70	1265	S63 and (extrud\$4 or extrus\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/13 15:54
S71	467	S70 and (push\$4 or pull\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/13 16:00
S72	190	(S68 or S69) and (extrud\$4 or extrus\$4) and (push\$4 or pull\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/13 16:53

**EAST Search History (I nterference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	29	morrell\$-vaughan\$.in. or wilke-roger\$.in.	US-PGPUB; USPAT; UPAD	OR	OFF	2010/05/17 10:34
L3	29	"Term Removed" or "Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	ON	2010/05/17 10:34
L4	0	L2 not L3	US-PGPUB; USPAT; UPAD	OR	OFF	2010/05/17 10:34
L8	107	(glass and (push\$4 or thrust\$4 or driv\$4 or press or pressed or pressing) and (pull\$4 or draw\$4) and (diameter or dimension) and (rod or tube or preform or cylinder) and (heat\$4 or furnace or melt\$4)). clm.	US-PGPUB; USPAT; UPAD	OR	OFF	2010/05/17 10:44
S58	2	morrell\$-vaughan\$.in. or wilke-roger\$.in.	US-PGPUB; USPAT; UPAD	OR	OFF	2009/08/13 15:15
S59	29	morrell\$-vaughan\$.in. or wilke-roger\$.in.	US-PGPUB; USPAT; UPAD	OR	OFF	2009/08/13 15:16

**5/ 17/ 2010 10:54:08 AM****C:\ Documents and Settings\ esnelting\ My Documents\ EAST\ Workspaces\ 10591211.wsp**